

Wireless set - RAD-900-DAIO6 - 2702877

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Radioline - 900 MHz wireless transceiver with six integrated I/O channels, NEMA 4X enclosure, N (female) antenna connection, omnidirectional antenna, point-to-point, star, and mesh networks up to 250 stations, range of up to 32 km (line of sight), for use in North America

Your advantages

- ✔ Completely compatible with existing Radioline installations
- ✔ Power using AC mains or DC control voltages
- ✔ Range of several kilometers thanks to adjustable data rates for the wireless interface
- ✔ NEMA 4X housing reduces time and complexity of installation

Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 428888
GTIN	4055626428888
Weight per Piece (excluding packing)	1.000 g
Custom tariff number	85176200
Country of origin	United States

Technical data

Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
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Dimensions

Width	220 mm
Height	90 mm
Depth	120 mm

Ambient conditions

Degree of protection	NEMA 4
Ambient temperature (operation)	-40 °C ... 70 °C (DC)

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Technical data

Ambient conditions

	-40 °C ... 65 °C (AC)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
	-40 °F ... 185 °F
Permissible humidity (operation)	20 % ... 85 %
Permissible humidity (storage/transport)	20 % ... 85 %
Altitude	2000 m
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz ... 150 Hz
Shock	in accordance with DIN EN 60068-2-27: 30g, 18 ms

General

Overvoltage category	II
Degree of pollution	2
Housing material	Glass-reinforced plastic (GRP)
Flammability rating according to UL 94	V0

Supply

Supply voltage range	10.8 V DC ... 30.5 V DC
	100 V AC ... 240 V AC
Max. current consumption	368 mA (10.8 V DC)
	135 mA (30.5 V DC)
	116 mA (100 V AC)
	60 mA (240 V AC)
Nominal power consumption	3.9 W (30 dBm)
Power consumption	7.4 W (peak; 30 dBm)
Transient surge protection	Yes

Wireless interface

Antenna connection	N (female)
Direction	Bi-directional
Frequency	900 MHz
Frequency range	902 MHz ... 928 MHz
Data rate	16 kbps (adjustable)
	125 kbps (adjustable)
	250 kbps (adjustable)
	500 kbps (adjustable)
Receiver sensitivity	-112 dBm (16 kbps)
	-105 dBm (125 kbps)
	-102 dBm (250 kbps)
	-95 dBm (500 kbps)

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Technical data

Wireless interface

Transmission power	max. 1 W (adjustable)
Range	± 32 km (The range may be considerably above or below that stated, and depends on the environment, antenna technology, and the product used)
Security	128-bit data encryption

RSSI output

Number of outputs	1
Voltage output signal	0 V ... 3 V

Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Stripping length	11 mm
Screw thread	M3

Status indicator

Status display	Green LED (supply voltage, PWR)
	Green LED (bus communication, DAT)
	Red LED (periphery error, ERR)
	3x green, 1x yellow LED (LED bar graph receive quality, RSSI)
	Yellow LED (digital input, DI1)
	Yellow LED (digital input, DI2)
	Yellow LED (digital output, DO1)
	Yellow LED (digital output, DO2)

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Flammability rating according to UL 94	V0
Interface description	Trusted Wireless
Security	128-bit data encryption
Shock	in accordance with DIN EN 60068-2-27: 30g, 18 ms
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz ... 150 Hz
Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210
UL, USA/Canada	ANSI/ISA/CSA 22.2 61010-2-201, UL 50E Type 4

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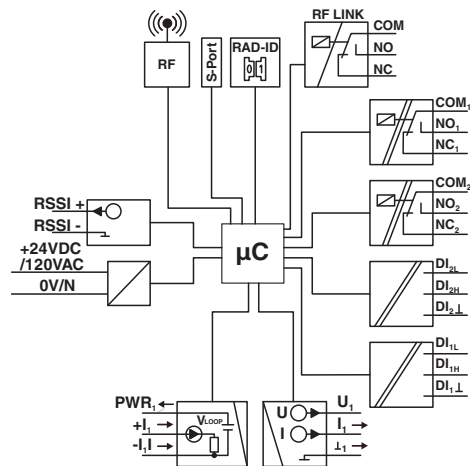
Technical data

Standards and Regulations

	Class I, Div. 2, Groups A, B, C, D T4 Class I, Zone 2, IIC T4
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Drawings

Block diagram



Classifications

eCl@ss

eCl@ss 10.0.1	19179290
eCl@ss 6.0	19179200
eCl@ss 7.0	19179290
eCl@ss 8.0	19179290
eCl@ss 9.0	19179290

ETIM

ETIM 5.0	EC000310
ETIM 6.0	EC000310
ETIM 7.0	EC000310

Approvals

Approvals

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Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cULus Listed			
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Accessories

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Surge protection for transceiver systems

Surge protection device - CN-UB-70DC-6-SB - 2803153



Attachment plug with surge protection for coaxial signal interfaces. Connection: N connector, male/female

Surge protection device - CN-LAMBDA/4-2.25-SB - 2801056



Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces. Connection: N connectors plug/socket

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Accessories

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